

## CRF Error Corrected by the STIC Systems Branch

Serial Number: 10/020,513

CRF Processing Date: 12/26/02 #4 018  
Edited by: DC 2590  
Verified by: (STIC staff) 12/18 Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically:

ENTERED

 Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_. Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_. Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: Other:

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

**RAW SEQUENCE LISTING**  
PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002  
TIME: 09:16:25

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF4\12262002\J020513.raw

3 <110> APPLICANT: Degussa AG  
 5 <120> TITLE OF INVENTION: Nucleotide sequences which code for the ilvE gene  
 7 <130> FILE REFERENCE: 000759 BT  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/020,513  
 C--> 10 <141> CURRENT FILING DATE: 2002-11-27  
 12 <160> NUMBER OF SEQ ID NOS: 2  
 14 <170> SOFTWARE: PatentIn Ver. 2.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 1453  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Corynebacterium glutamicum  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: CDS  
 23 <222> LOCATION: (221)..(1321)  
 24 <223> OTHER INFORMATION: ilvE gene  
 26 <400> SEQUENCE: 1  
 27 ccttggttgg tgctgttgtg ctgttaggcattttcgccat tgaaagctga gtcctctcg 60  
 29 tgaagttgtg tctccgcttt ggttggggga ggcataaat tgaaaactaacat 120  
 31 cctagccatt cctcaaaaacc gtgagacgaa attggctatt catcccataaa aatggggctg 180  
 33 actagtgtat ctgtcaggta gcaggtgtac cttaaaatcc atg acg tca tta gag 235  
 34 Met Thr Ser Leu Glu  
 35 1 5  
 37 ttc aca gta acc cgt acc gaa aat ccg acg tca ccc gat cgt ctg aag 283  
 38 Phe Thr Val Thr Arg Thr Glu Asn Pro Thr Ser Pro Asp Arg Leu Lys  
 39 10 15 20  
 41 gaa att ctt gcc gca ccg aag ttc ggt aag ttc ttc acc gac cac atg 331  
 42 Glu Ile Leu Ala Ala Pro Lys Phe Gly Lys Phe Phe Thr Asp His Met  
 43 25 30 35  
 45 gtg acc att gac tgg aac gag tcg gaa ggc tgg cac aac gcc caa tta 379  
 46 Val Thr Ile Asp Trp Asn Glu Ser Glu Gly Trp His Asn Ala Gln Leu  
 47 40 45 50  
 49 gtg cca tac gcg ccg att cct atg gat cct gcc acc acc gta ttc cac 427  
 50 Val Pro Tyr Ala Pro Ile Pro Met Asp Pro Ala Thr Thr Val Phe His  
 51 55 60 65  
 53 tac gga cag gca att ttt gag gga att aag gcc tac cgc cat tcg gac 475  
 54 Tyr Gly Gln Ala Ile Phe Glu Gly Ile Lys Ala Tyr Arg His Ser Asp  
 55 70 75 80 85  
 57 gaa acc atc aag act ttc cgt cct gat gaa aac gcc gag cgt atg cag 523  
 58 Glu Thr Ile Lys Thr Phe Arg Pro Asp Glu Asn Ala Glu Arg Met Gln  
 59 90 95 100  
 60 cgt tca gca gct cga atg gca atg cca cag ttg cca acc gag gac ttt 571  
 61 Arg Ser Ala Ala Arg Met Ala Met Pro Gln Leu Pro Thr Glu Asp Phe  
 62 105 110 115

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/020,513**

DATE: 12/26/2002  
 TIME: 09:16:25

Input Set : A:\PTO.DC.txt  
 Output Set: N:\CRF4\12262002\J020513.raw

64 att aaa gca ctt gaa ctg ctg gta gac gcg gat cag gat tgg gtt cct	619
65 Ile Lys Ala Leu Glu Leu Leu Val Asp Ala Asp Gln Asp Trp Val Pro	
66 120 125 130	
68 gag tac ggc gga gaa gct tcc ctc tac ctg cgc cca ttc atg atc tcc	667
69 Glu Tyr Gly Gly Glu Ala Ser Leu Tyr Leu Arg Pro Phe Met Ile Ser	
70 135 140 145	
72 acc gaa att ggc ttg ggt gtc agc cca gct gat gcc tac aag ttc ctg	715
73 Thr Glu Ile Gly Leu Gly Val Ser Pro Ala Asp Ala Tyr Lys Phe Leu	
74 150 155 160 165	
76 gtc atc gca tcc cca gtc ggc gct tac ttc acc ggt gga atc aag cct	763
77 Val Ile Ala Ser Pro Val Gly Ala Tyr Phe Thr Gly Gly Ile Lys Pro	
78 170 175 180	
80 gtt tcc gtc tgg ctg agc gaa gat tac gtc cgc gct gca ccc ggc gga	811
81 Val Ser Val Trp Leu Ser Glu Asp Tyr Val Arg Ala Ala Pro Gly Gly	
82 185 190 195	
84 act ggt gac gcc aaa ttt gct ggc aac tac gcg gct tct ttg ctt gcc	859
85 Thr Gly Asp Ala Lys Phe Ala Gly Asn Tyr Ala Ala Ser Leu Leu Ala	
86 200 205 210	
88 cag tcc cag gct gcg gaa aag ggc tgt gac cag gtc gta tgg ttg gat	907
89 Gln Ser Gln Ala Ala Glu Lys Gly Cys Asp Gln Val Val Trp Leu Asp	
90 215 220 225	
92 gcc atc gag cac aag tac atc gaa gaa atg ggt ggc atg aac ctt ggg	955
93 Ala Ile Glu His Lys Tyr Ile Glu Glu Met Gly Gly Met Asn Leu Gly	
94 230 235 240 245	
96 ttc atc tac cgc aac ggc gac caa gtc aag cta gtc acc cct gaa ctt	1003
97 Phe Ile Tyr Arg Asn Gly Asp Gln Val Lys Leu Val Thr Pro Glu Leu	
98 250 255 260	
100 tcc ggc tca cta ctt cca ggc atc acc cgc aag tca ctt cta caa gta	1051
101 Ser Gly Ser Leu Leu Pro Gly Ile Thr Arg Lys Ser Leu Leu Gln Val	
102 265 270 275	
104 gca cgc gac ttg gga tac gaa gta gaa gag cga aag atc acc acc acc	1099
105 Ala Arg Asp Leu Gly Tyr Glu Val Glu Glu Arg Lys Ile Thr Thr Thr	
106 280 285 290	
108 gag tgg gaa gaa gac gca aag tct ggc gcc atg acc gag gca ttt gct	1147
109 Glu Trp Glu Glu Asp Ala Lys Ser Gly Ala Met Thr Glu Ala Phe Ala	
110 295 300 305	
112 tgc ggt act gca gct gtt atc acc cct gtt ggc acc gtg aaa tca gct	1195
113 Cys Gly Thr Ala Ala Val Ile Thr Pro Val Gly Thr Val Lys Ser Ala	
114 310 315 320 325	
116 cac ggc acc ttc gaa gtg aac aac aat gaa gtc gga gaa atc acg atg	1243
117 His Gly Thr Phe Glu Val Asn Asn Asn Glu Val Gly Glu Ile Thr Met	
118 330 335 340	
120 aag ctt cgt gaa acc ctc acc gga att cag caa gga aac gtt gaa gac	1291
121 Lys Leu Arg Glu Thr Leu Thr Gly Ile Gln Gln Gly Asn Val Glu Asp	
122 345 350 355	
124 caa aac gga tgg ctt tac cca ctg gtt ggc taaatcaacc ggttttaaga	1341
125 Gln Asn Gly Trp Leu Tyr Pro Leu Val Gly	
126 360 365	
128 ccccgctgca ttaaacccctg atttattgca gcggggttt tgcgttgaca agctcttatg	1401

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002  
TIME: 09:16:25

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF4\12262002\J020513.raw

130 agacgttaggg ggtggaagca ggggttaggac gtgtccagcc caagtggcat gc 1453  
 133 <210> SEQ ID NO: 2  
 134 <211> LENGTH: 367  
 135 <212> TYPE: PRT  
 136 <213> ORGANISM: Corynebacterium glutamicum  
 138 <400> SEQUENCE: 2  
 139 Met Thr Ser Leu Glu Phe Thr Val Thr Arg Thr Glu Asn Pro Thr Ser 145  
 140 1 5 10 15  
 142 Pro Asp Arg Leu Lys Glu Ile Leu Ala Ala Pro Lys Phe Gly Lys Phe 145  
 143 20 25 30  
 145 Phe Thr Asp His Met Val Thr Ile Asp Trp Asn Glu Ser Glu Gly Trp 150  
 146 35 40 45  
 148 His Asn Ala Gln Leu Val Pro Tyr Ala Pro Ile Pro Met Asp Pro Ala 155  
 149 50 55 60  
 151 Thr Thr Val Phe His Tyr Gly Gln Ala Ile Phe Glu Gly Ile Lys Ala 160  
 152 65 70 75 80  
 154 Tyr Arg His Ser Asp Glu Thr Ile Lys Thr Phe Arg Pro Asp Glu Asn 165  
 155 85 90 95  
 157 Ala Glu Arg Met Gln Arg Ser Ala Ala Arg Met Ala Met Pro Gln Leu 170  
 158 100 105 110  
 160 Pro Thr Glu Asp Phe Ile Lys Ala Leu Glu Leu Leu Val Asp Ala Asp 175  
 161 115 120 125  
 163 Gln Asp Trp Val Pro Glu Tyr Gly Gly Glu Ala Ser Leu Tyr Leu Arg 180  
 164 130 135 140  
 166 Pro Phe Met Ile Ser Thr Glu Ile Gly Leu Gly Val Ser Pro Ala Asp 185  
 167 145 150 155 160  
 169 Ala Tyr Lys Phe Leu Val Ile Ala Ser Pro Val Gly Ala Tyr Phe Thr 190  
 170 165 170 175  
 172 Gly Gly Ile Lys Pro Val Ser Val Trp Leu Ser Glu Asp Tyr Val Arg 195  
 173 180 185 190  
 175 Ala Ala Pro Gly Gly Thr Gly Asp Ala Lys Phe Ala Gly Asn Tyr Ala 200  
 176 195 200 205  
 178 Ala Ser Leu Leu Ala Gln Ser Gln Ala Ala Glu Lys Gly Cys Asp Gln 205  
 179 210 215 220  
 181 Val Val Trp Leu Asp Ala Ile Glu His Lys Tyr Ile Glu Glu Met Gly 210  
 182 225 230 235 240  
 184 Gly Met Asn Leu Gly Phe Ile Tyr Arg Asn Gly Asp Gln Val Lys Leu 215  
 185 245 250 255  
 187 Val Thr Pro Glu Leu Ser Gly Ser Leu Leu Pro Gly Ile Thr Arg Lys 220  
 188 260 265 270  
 190 Ser Leu Leu Gln Val Ala Arg Asp Leu Gly Tyr Glu Val Glu Glu Arg 225  
 191 275 280 285  
 193 Lys Ile Thr Thr Glu Trp Glu Glu Asp Ala Lys Ser Gly Ala Met 230  
 194 290 295 300  
 196 Thr Glu Ala Phe Ala Cys Gly Thr Ala Ala Val Ile Thr Pro Val Gly 235  
 197 305 310 315 320  
 199 Thr Val Lys Ser Ala His Gly Thr Phe Glu Val Asn Asn Asn Glu Val 240  
 200 325 330 335  
 202 Gly Glu Ile Thr Met Lys Leu Arg Glu Thr Leu Thr Gly Ile Gln Gln 245

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002

TIME: 09:16:26

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF4\12262002\J020513.raw

203           340           345           350  
205 Gly Asn Val Glu Asp Gln Asn Gly Trp Leu Tyr Pro Leu Val Gly  
206           355           360           365

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/020,513

DATE: 12/26/2002

TIME: 09:16:27

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\12262002\J020513.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date



OIPE

Open To Comply  
Corrected To Be Needed

**RAW SEQUENCE LISTING**  
PATENT APPLICATION: US/10/020,513

DATE: 12/16/2002  
TIME: 13:34:23

Input Set : A:\000759\_englisch.app  
Output Set: N:\CRF4\12162002\J020513.raw

3 <110> APPLICANT: Degussa AG  
5 <120> TITLE OF INVENTION: Nucleotide sequences which code for the ilvE gene  
7 <130> FILE REFERENCE: 000759 BT  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/020,513  
C--> 10 <141> CURRENT FILING DATE: 2002-11-27  
12 <160> NUMBER OF SEQ ID NOS: 2  
14 <170> SOFTWARE: PatentIn Ver. 2.1

#### ERRORED SEQUENCES

133 <210> SEQ ID NO: 2  
134 <211> LENGTH: 367  
135 <212> TYPE: PRT  
136 <213> ORGANISM: Corynebacterium glutamicum  
138 <400> SEQUENCE: 2  
139 Met Thr Ser Leu Glu Phe Thr Val Thr Arg Thr Glu Asn Pro Thr Ser  
140. 1 5 10 15  
142 Pro Asp Arg Leu Lys Glu Ile Leu Ala Ala Pro Lys Phe Gly Lys Phe  
143 20 25 30  
145 Phe Thr Asp His Met Val Thr Ile Asp Trp Asn Glu Ser Glu Gly Trp  
146 35 40 45  
148 His Asn Ala Gln Leu Val Pro Tyr Ala Pro Ile Pro Met Asp Pro Ala  
149 50 55 60  
151 Thr Thr Val Phe His Tyr Gly Gln Ala Ile Phe Glu Gly Ile Lys Ala  
152 65 70 75 80  
154 Tyr Arg His Ser Asp Glu Thr Ile Lys Thr Phe Arg Pro Asp Glu Asn  
155 85 90 95  
157 Ala Glu Arg Met Gln Arg Ser Ala Ala Arg Met Ala Met Pro Gln Leu  
158 100 105 110  
160 Pro Thr Glu Asp Phe Ile Lys Ala Leu Glu Leu Leu Val Asp Ala Asp  
161 115 120 125  
163 Gln Asp Trp Val Pro Glu Tyr Gly Gly Glu Ala Ser Leu Tyr Leu Arg  
164 130 135 140  
166 Pro Phe Met Ile Ser Thr Glu Ile Gly Leu Gly Val Ser Pro Ala Asp  
167 145 150 155 160  
169 Ala Tyr Lys Phe Leu Val Ile Ala Ser Pro Val Gly Ala Tyr Phe Thr  
170 165 170 175  
172 Gly Gly Ile Lys Pro Val Ser Val Trp Leu Ser Glu Asp Tyr Val Arg  
173 180 185 190  
175 Ala Ala Pro Gly Gly Thr Gly Asp Ala Lys Phe Ala Gly Asn Tyr Ala  
176 195 200 205  
178 Ala Ser Leu Leu Ala Gln Ser Gln Ala Ala Glu Lys Gly Cys Asp Gln

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/020,513DATE: 12/16/2002  
TIME: 13:34:23Input Set : A:\000759\_englisch.app  
Output Set: N:\CRF4\12162002\J020513.raw

179	210	215	220														
181	Val	Val	Trp	Leu	Asp	Ala	Ile	Glu	His	Lys	Tyr	Ile	Glu	Glu	Met	Gly	
182	225			230			235					240					
184	Gly	Met	Asn	Leu	Gly	Phe	Ile	Tyr	Arg	Asn	Gly	Asp	Gln	Val	Lys	Leu	
185				245				250					255				
187	Val	Thr	Pro	Glu	Leu	Ser	Gly	Ser	Leu	Leu	Pro	Gly	Ile	Thr	Arg	Lys	
188				260				265					270				
190	Ser	Leu	Leu	Gln	Val	Ala	Arg	Asp	Leu	Gly	Tyr	Glu	Val	Glu	Glu	Arg	
191		275			280			285					285				
193	Lys	Ile	Thr	Thr	Thr	Glu	Trp	Glu	Glu	Asp	Ala	Lys	Ser	Gly	Ala	Met	
194		290			295			300					300				
196	Thr	Glu	Ala	Phe	Ala	Cys	Gly	Thr	Ala	Ala	Val	Ile	Thr	Pro	Val	Gly	
197		305				310			315			315			320		
199	Thr	Val	Lys	Ser	Ala	His	Gly	Thr	Phe	Glu	Val	Asn	Asn	Asn	Glu	Val	
200					325			330			330			335			
202	Gly	Glu	Ile	Thr	Met	Lys	Leu	Arg	Glu	Thr	Leu	Thr	Gly	Ile	Gln	Gln	
203					340			345			345			350			
205	Gly	Asn	Val	Glu	Asp	Gln	Asn	Gly	Trp	Leu	Tyr	Pro	Leu	Val	Gly		
206					355			360			360			365			

E--> 213 ~~Degussa Aktiengesellschaft Fehler! Textmarke nicht definiert.~~E--> 214 ~~60311 Frankfurt~~*delete*

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/020,513

DATE: 12/16/2002  
TIME: 13:34:24

Input Set : A:\000759\_englisch.app  
Output Set: N:\CRF4\12162002\J020513.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:213 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:213 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:6  
L:214 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2  
L:214 M:333 E: Wrong sequence grouping, Amino acids not in groups!  
L:214 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1  
L:214 M:252 E: No. of Seq. differs, <211> LENGTH:Input:367 Found:374 SEQ:2